

File 347:JAPIO Oct 1976-2000/Mar(UPDATED 000801)

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DIALOG(R)File 347:JAPIO

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WATER PURIFYING APPARATUS

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#### ABSTRACT

PURPOSE: To remove suspended substances which are smaller than the pore diameter of a filter medium and to have a prompt, stable filtration performance by installing a filtration means for filtering water, a flocculation means for flocculating suspended substances in water, and water temperature control means for controlling water temperature.

CONSTITUTION: Water in a bathtub 21, the temperature of which is kept constant by an electric heater 29, is sent to a passage 30 by a circulating pump 22 and, after passing through a pH adjustment means 23, is introduced into a flocculation means 24, where the water is added with an aluminum ion to produce aluminum hydroxide. The aluminum hydroxide, which is charged positively, induces electric adsorption with negatively charged suspended substances in water such as bacteria and fur, increasing the particle size of the suspended substances. In this way, the water containing the suspended substances with an enlarged particle size enters a filtration means 25 to be filtered by a filter medium 26. The water filtered by the filtration means 25 is then sterilized with an ultraviolet lamp to kill microorganisms in water and is again returned to the bathtub 21.

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